

Discrete Mathematics
Volumes 197/198, 28 February 1999

Contents

Preface

<i>D.R. Woodall</i>	1
---------------------	---

Contributions

<i>H.L. Abbott and D.R. Hare</i> Square critically 3-chromatic hypergraphs	3
<i>F. Aguiló-Gost</i> New dense families of triple loop networks	15
<i>R.E.L. Aldred and M.D. Plummer</i> On matching extensions with prescribed and proscribed edge sets II	29
<i>S.M. Allen, D.H. Smith and S. Hurley</i> Lower bounding techniques for frequency assignment	41
<i>I. Anderson</i> On the construction of balanced Room squares	53
<i>C. Balbuena, A. Carmona, J. Fàbrega and M. A. Fiol</i> Superconnectivity of bipartite digraphs and graphs	61
<i>D. Bedford and R.M. Whitaker</i> Enumeration of transversals in the Cayley tables of the non-cyclic groups of order 8	77
<i>A. Betten, M. Klin, R. Laue and A. Wassermann</i> Graphical t -designs via polynomial Kramer-Mesner matrices	83
<i>A. Betten, R. Laue and A. Wassermann</i> New t -designs and large sets of t -designs	111
<i>E.J. Billington</i> Decomposing complete tripartite graphs into cycles of lengths 3 and 4	123
<i>A. Blokhuis and C.M. O'Keefe</i> On deriving unitals	137
<i>J. Brousek, Z. Ryjáček and I. Schiermeyer</i> Forbidden subgraphs, stability and hamiltonicity	143
<i>J.M. Brunat, M. Maureso and M. Mora</i> Endo-circulant digraphs: connectivity and generalized cycles	157
<i>G.J. Chang and M.-J. Jou</i> The number of maximal independent sets in connected triangle-free graphs	169
<i>G. Chartrand, F. Harary and B.Q. Yue</i> On the out-domination and in-domination numbers of a digraph	179

Discrete Mathematics
Volumes 197/198, 28 February 1999

Contents

Preface

<i>D.R. Woodall</i>	1
---------------------	---

Contributions

<i>H.L. Abbott and D.R. Hare</i> Square critically 3-chromatic hypergraphs	3
<i>F. Aguiló-Gost</i> New dense families of triple loop networks	15
<i>R.E.L. Aldred and M.D. Plummer</i> On matching extensions with prescribed and proscribed edge sets II	29
<i>S.M. Allen, D.H. Smith and S. Hurley</i> Lower bounding techniques for frequency assignment	41
<i>I. Anderson</i> On the construction of balanced Room squares	53
<i>C. Balbuena, A. Carmona, J. Fàbrega and M. A. Fiol</i> Superconnectivity of bipartite digraphs and graphs	61
<i>D. Bedford and R.M. Whitaker</i> Enumeration of transversals in the Cayley tables of the non-cyclic groups of order 8	77
<i>A. Betten, M. Klin, R. Laue and A. Wassermann</i> Graphical t -designs via polynomial Kramer-Mesner matrices	83
<i>A. Betten, R. Laue and A. Wassermann</i> New t -designs and large sets of t -designs	111
<i>E.J. Billington</i> Decomposing complete tripartite graphs into cycles of lengths 3 and 4	123
<i>A. Blokhuis and C.M. O'Keefe</i> On deriving unitals	137
<i>J. Brousek, Z. Ryjáček and I. Schiermeyer</i> Forbidden subgraphs, stability and hamiltonicity	143
<i>J.M. Brunat, M. Maureso and M. Mora</i> Endo-circulant digraphs: connectivity and generalized cycles	157
<i>G.J. Chang and M.-J. Jou</i> The number of maximal independent sets in connected triangle-free graphs	169
<i>G. Chartrand, F. Harary and B.Q. Yue</i> On the out-domination and in-domination numbers of a digraph	179

<i>G. Chen, R.J. Gould and M.S. Jacobson</i> On 2-factors containing 1-factors in bipartite graphs	185
<i>C.-C. Chou, C.-M. Fu and W.-C. Huang</i> Decomposition of $K_{m,n}$ into short cycles	195
<i>B. Curtin</i> Distance-regular graphs which support a spin model are thin	205
<i>D.P. Day, O.R. Oellermann and H.C. Swart</i> Bounds on the size of graphs of given order and ℓ -connectivity	217
<i>Y. Egawa and K. Ota</i> Vertex-disjoint claws in graphs	225
<i>S. Evdokimov, M. Karpinski and I. Ponomarenko</i> Compact cellular algebras and permutation groups	247
<i>O. Favaron and J. Puech</i> Irredundant and perfect neighborhood sets in graphs and claw-free graphs	269
<i>D. Ferrero and C. Padró</i> Disjoint paths of bounded length in large generalized cycles	285
<i>N.J. Finizio and P.A. Leonard</i> Inductive extensions of some Z -cyclic whist tournaments	299
<i>E. Fischer</i> Cycle factors in dense graphs	309
<i>W.L. Fouché</i> Symmetries and Ramsey properties of trees	325
<i>W.L. Fouché, L.M. Pretorius and C.J. Swanepoel</i> Partition theorems for factorisations of ascending parameter words	331
<i>J.D. Gilbey and L.H. Kalikow</i> Parking functions, valet functions and priority queues	351
<i>J. Gimbert</i> On the existence of (d, k) -digraphs	375
<i>W.H. Haemers</i> Minimum resolvable coverings with small parallel classes	393
<i>H. Harborth and S. Maasberg</i> All two-color Rado numbers for $a(x + y) = bz$	397
<i>B.L. Hartnell and D.F. Rall</i> A bound on the size of a graph with given order and bondage number	409
<i>M.A. Henning</i> Graphs with large restrained domination number	415
<i>C. Huybrechts</i> $L \cdot L^*$ -geometries and D_n -buildings	431
<i>S. Jendrol', T. Madaras, R. Soták and Z. Tuza</i> On light cycles in plane triangulations	453

<i>M. Klazar</i> Extremal problems for colored trees and Davenport-Schinzel sequences	469
<i>E. Kolev and R. Hill</i> An improved lower bound on the covering number $K_2(9, 1)$	483
<i>F. Larrión and V. Neumann-Lara</i> Clique divergent graphs with unbounded sequence of diameters	491
<i>F. Lazebnik, V.A. Ustimenko and A.J. Woldar</i> Polarities and $2k$ -cycle-free graphs	503
<i>V.I. Levenshtein</i> Equivalence of Delsarte's bounds for codes and designs in symmetric association schemes, and some applications	515
<i>R.P. Lewis</i> The number of spanning trees of a complete multipartite graph	537
<i>E.S. Mahmoodian and E. Mendelsohn</i> On defining numbers of vertex colouring of regular graphs	543
<i>J. Martí-Farré</i> Sets defining minimal vertex covers	555
<i>J.P. McSorley</i> Single-change circular covering designs	561
<i>M. Muzychuk</i> On the isomorphism problem for cyclic combinatorial objects	589
<i>A. Nakamoto</i> Transformations in closed 2-cell embeddings on surfaces preserving specified properties	607
<i>V. Neumann-Lara</i> The acyclic disconnection of a digraph	617
<i>V. Neumann-Lara, E. Rivera-Campo and J. Urrutia</i> A note on covering the edges of a graph with bonds	633
<i>S. Perkins and A.E. Escott</i> Synchronizing codewords of q -ary Huffman codes	637
<i>N.C.K. Phillips and D.A. Preece</i> Tight single-change covering designs with $v = 12$, $k = 4$	657
<i>D.A. Preece and B.J. Vowden</i> Some series of cyclic balanced hyper-Graeco-Latin superimpositions of three Youden squares	671
<i>D. Rautenbach</i> The influence of special vertices on strong domination	683
<i>D.H. Rees and D.A. Preece</i> Perfect Graeco-Latin balanced incomplete block designs (pergolas)	691
<i>I. Sarmiento</i> A characterisation of jointless Dowling geometries	713

<i>R. Shaw</i>	
A property of A_7 , and a maximal 3-dimensional linear section of $GL(4, 2)$	733
<i>A. Sonnino</i>	
Linear collineation groups preserving an arc in a Möbius plane	749
<i>K.J. Swanepoel</i>	
Cardinalities of k -distance sets in Minkowski spaces	759
<i>M. Tewes and L. Volkmann</i>	
Vertex deletion and cycles in multipartite tournaments	769
<i>H. Trommel, H.J. Veldman and A. Verschut</i>	
Pancyclicity of claw-free hamiltonian graphs	781
<i>K. Ushio</i>	
\hat{S}_r -factorization of symmetric complete tripartite digraphs	791
Research problems	799
Author index to volumes 197/198	813



